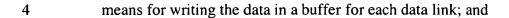
## **CLAIMS**

What is claimed is:

- 1 1. A method for inverse multiplexing over an asynchronous transfer mode (ATM)
- 2 network comprising:
- 3 receiving data on one or more data links;
- 4 writing the data in a buffer for each data link; and
- 5 reading the data from the buffer for each data link faster than the data is written
- 6 into the buffer.
- 1 2. The method of claim 1, wherein the receiving the data includes receiving an
- 2 asynchronous transfer mode (ATM) data cell.
- 1 3. The method of claim 1, wherein the receiving data includes receiving the data on
- 2 one or more T1/E1 data links.
- 1 4. The method of claim 1, further comprising:
- deleting a slow link such the delay caused by the slow link is reduced.
- 1 5. The method of claim 4, further comprising:
- 2 adding a fast link after the slow link is deleted.

- 1 6. An inverse multiplexing system comprising:
- 2 one or more interfaces to receive data;
- a buffer for each interface to store the data; and
- a controller to write the data in the buffer for each interface and to read the data
- 5 from the buffer for each interface faster than the data is written into the buffer.
- 1 7. The inverse multiplexing system of claim 6, wherein the data includes an
- 2 asynchronous transfer mode (ATM) data cell.
- 1 8. The inverse multiplexing system of claim 6, wherein interface is to interface with
- 2 T1/E1 data links.
- 1 9. The inverse multiplexing system of claim 6, wherein the controller is to stop
- 2 receiving data from an interface that is interfaced with a slow data link such that the delay
- 3 caused by the slow data link is reduced.
- 1 10. The inverse multiplexing system of claim 9, wherein the controller is to add an
- 2 interface to receive data for a fast data link after stopping receiving data from the
- 3 interface that is interfaced with the slow data link.
- 1 11. A machine-readable medium that provides instructions, which if executed by a
- 2 processor, cause the processor to perform an operation comprising:
- 3 receiving data on one or more data links;

- 4 writing the data in a buffer for each data link; and
- 5 reading the data from the buffer for each data link faster than the data is written
- 6 into the buffer.
- 1 12. The machine-readable medium of claim 11, further providing instructions, which
- 2 if executed by the processor, cause the processor to perform an operation comprising:
- 3 receiving an asynchronous transfer mode (ATM) data cell.
- 1 13. The machine-readable medium of claim 11, further providing instructions, which
- 2 if executed by the processor, cause the processor to perform an operation comprising:
- 3 receiving the data on one or more T1/E1 data links.
- 1 14. The machine-readable medium of claim 11, further providing instructions, which
- 2 if executed by the processor, cause the processor to perform an operation comprising:
- deleting a slow data link such that a delay caused by the slow data link is reduced.
- 1 15. The machine-readable medium of claim 11, further providing instructions, which
- 2 if executed by the processor, cause the processor to perform an operation comprising:
- adding a fast data link after the slow link is deleted.
- 1 16. A system for inverse multiplexing over an asynchronous transfer mode (ATM)
- 2 network comprising:
- means for receiving data on one or more data links;



- 5 means for reading the data from the buffer for each data link faster than the data is
- 6 written into the buffer.
- 1 17. The system of claim 16, wherein the means for receiving the data includes means
- 2 for receiving an asynchronous transfer mode (ATM) data cell.
- 1 18. The system of claim 16, wherein the means for receiving data includes means for
- 2 receiving the data on one or more T1/E1 data links.
- 1 19. The system of claim 16, further comprising:
- 2 means for deleting a slow link such the delay caused by the slow link is reduced.
- 1 20. The system of claim 18, further comprising:
- 2 means for adding a fast link after the slow link is deleted.